TIMKEN

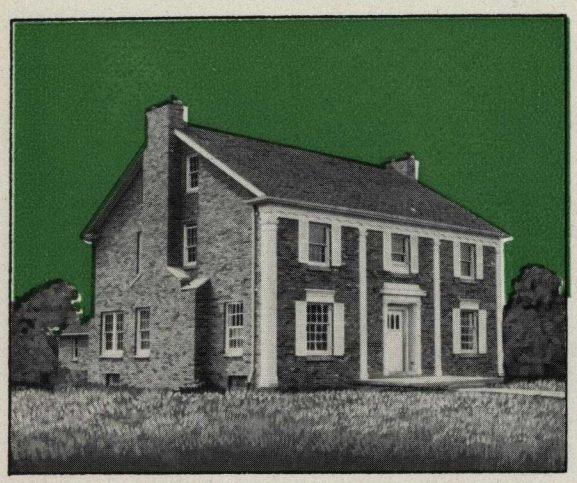
COMPLETE AIR CONDITIONING UNITS

WITH REFRIGERATED SUMMER COOLING

Controlled Indoor Climate Every Minute of the Year

HEATS • FILTERS • HUMIDIFIES • DEHUMIDIFIES • CIRCULATES • COOLS

HOW TO MAKE SURE THAT YOUR NEW HOME WILL *Stay* MODERN!



● Of course you'll build a home that's up to the minute—but will it still be modern, five, ten or fifteen years from now?

You'll find the answer in your heating and air conditioning system. Will it bring you clean, filtered, properly humidified air at all times? Steady, even temperatures? Will it provide refrigerated summer cooling? Solid comfort, healthfulness, the peak of modern convenience?

It will, if it's a Timken! Because Timken is a product of truly ***advanced*** engineering—a product that protects your investment, keeps your home modern year after year.

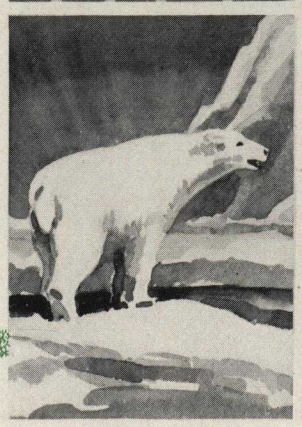
TRUE AIR CONDITIONING IS COMPLETE CONTROL OF WEATHER INSIDE YOUR HOME

Timken Complete Air Conditioning should not be confused with any of the varieties of so-called air conditioning which are partial or make-shift. Timken air conditioning units heat, filter, humidify, dehumidify, circulate and positively cool the air in your home. Silently, economically, they bring you nature's fairest weather . . . scientifically blended to make your home more livable.

Warmth is basic to good air conditioning . . . the soothing, comfortable warmth of a balmy June day. During the coldest winter —or on damp, chilly days in spring or fall —Timken Air Conditioning units provide dependable, even temperatures . . . *all* the heat you want *when* you want it.

To keep the air in your home fresh and invigorating, it must be changed regularly. The change, however, must be gradual so you are not annoyed by drafts, chills or blasts of heat. Timken distributes filtered air evenly, all over your home.

On sultry or scorching summer days there is no pleasure equal to the cool, refreshing restfulness of a home conditioned by Timken. You can eat, lounge and—best of all—sleep in perfect comfort, no matter how high the mercury climbs. Timken brings you positive cooling . . . *real* comfort.



The proper amount of moisture in the air you breathe is essential to good health. Clean, purified air . . . like a breeze washed by a gentle summer rain. Timken automatically adds moisture in winter and takes out excessive moisture during the summer.

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Timken
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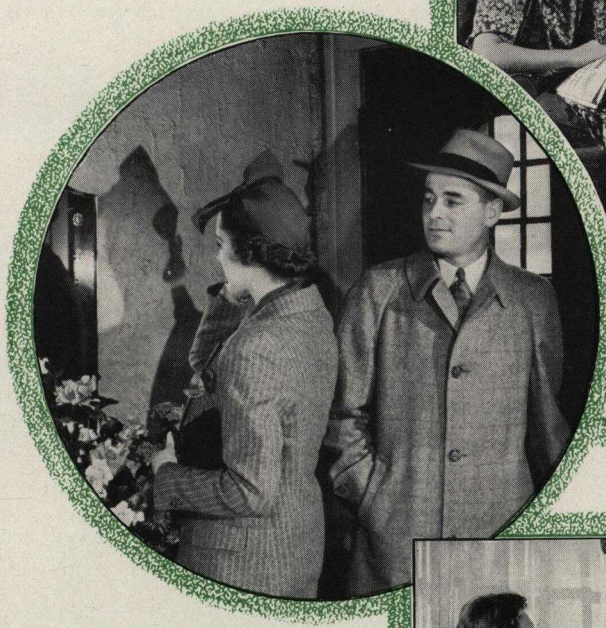
TIMKEN BRINGS YOUR FAMILY THE JOY OF HEALTHFUL INDOOR CLIMATE

You can't appreciate the comfort and pleasure a Timken brings until you've actually lived with it. Positive circulation of conditioned air means even temperatures throughout your home—no chilly corners. There's genuine enjoyment in abundant, dependable warmth—steady, even temperatures and warm floors—on even the coldest days . . . revitalizing cool air during the hottest summer months. You get perfect comfort all year long with Timken.



ENGINEERS' MAGIC PROVIDES FREEDOM

A thermostat is your janitor . . . controls that are almost human relieve you of all the worry and responsibility. Timken air conditioning is ***completely*** automatic—assuring you reliable, carefree heating or cooling as the season requires. Keep your youth and good spirits with a Timken!

CLEANLINESS SAVES TIME

Timken Air Conditioning Units burn oil . . . the clean fuel that is free from soot, smoke and ashes. In addition, all the air delivered to your living quarters is carefully filtered to remove dust, pollen and dirt that is always present in air. Housework is lightened . . . cleaning and decorating costs cut to a minimum.

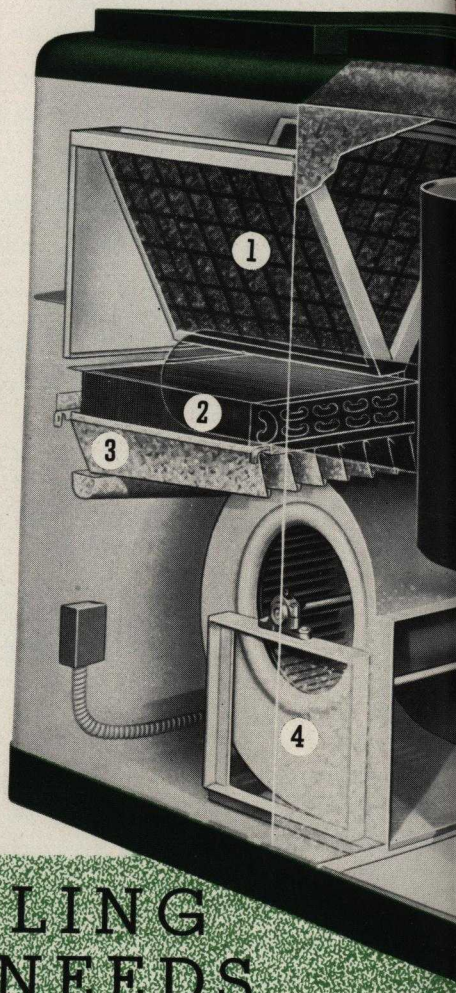
GOOD HEALTH GUARDED TWENTY-FOUR HOURS A DAY

Hot, dry air irritates the delicate membranes of the nose and throat . . . uneven temperatures lower resistance to colds! With Timken air conditioning you and your family enjoy healthful, clean heat . . . steady temperatures in winter. In summer, invigorating, cool, clean air keeps you hale and hearty . . . completely happy.

TIMKEN OFFERS A NEW HIG
OIL HEATING *Plus* REFRI

● The crowning touch to your home—a Timken Air Conditioning Unit that provides dependable heating, air conditioning and cooling with unequalled efficiency. In each attractive unit of this complete air conditioning line you will find the same balanced design, compact construction, expert engineering and precision workmanship that has earned Timken leadership. Highest quality materials, too, are a Timken tradition.

You can buy Timken Air Conditioning with confidence! Timken's exclusive features have been tested and proved in more than 140,000 homes. Simple design, rugged construction and extra heavy steel used in furnace and cabinet, make Timken a lifetime unit. For these reasons Timken alone offers you truly outstanding year 'round air conditioning equipment. Reliable, trouble-free performance . . . greatest savings through exceptionally low operating cost. Choose wisely; choose well—choose Timken!

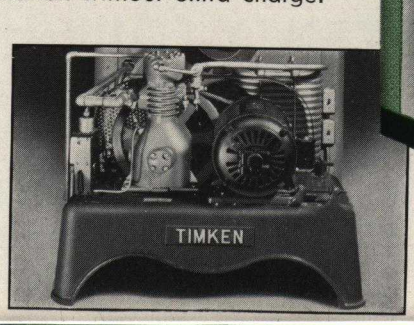


EFFECTIVE SUMMER COOLING TAILOR-MADE TO YOUR NEEDS

Refrigerated summer cooling—to guarantee complete satisfaction—***must*** provide enough cooled, dehumidified, properly circulated air to keep everyone in your home thoroughly comfortable at all times. The variety of models in Timken's complete new line of year 'round air conditioning units makes it possible to engineer your summer cooling exactly, with respect to both your particular home and your budget. Timken engineers have designed the cooling equipment so it can be omitted from the original installation and added later if desired. They also write specifications for each installation without extra charge.

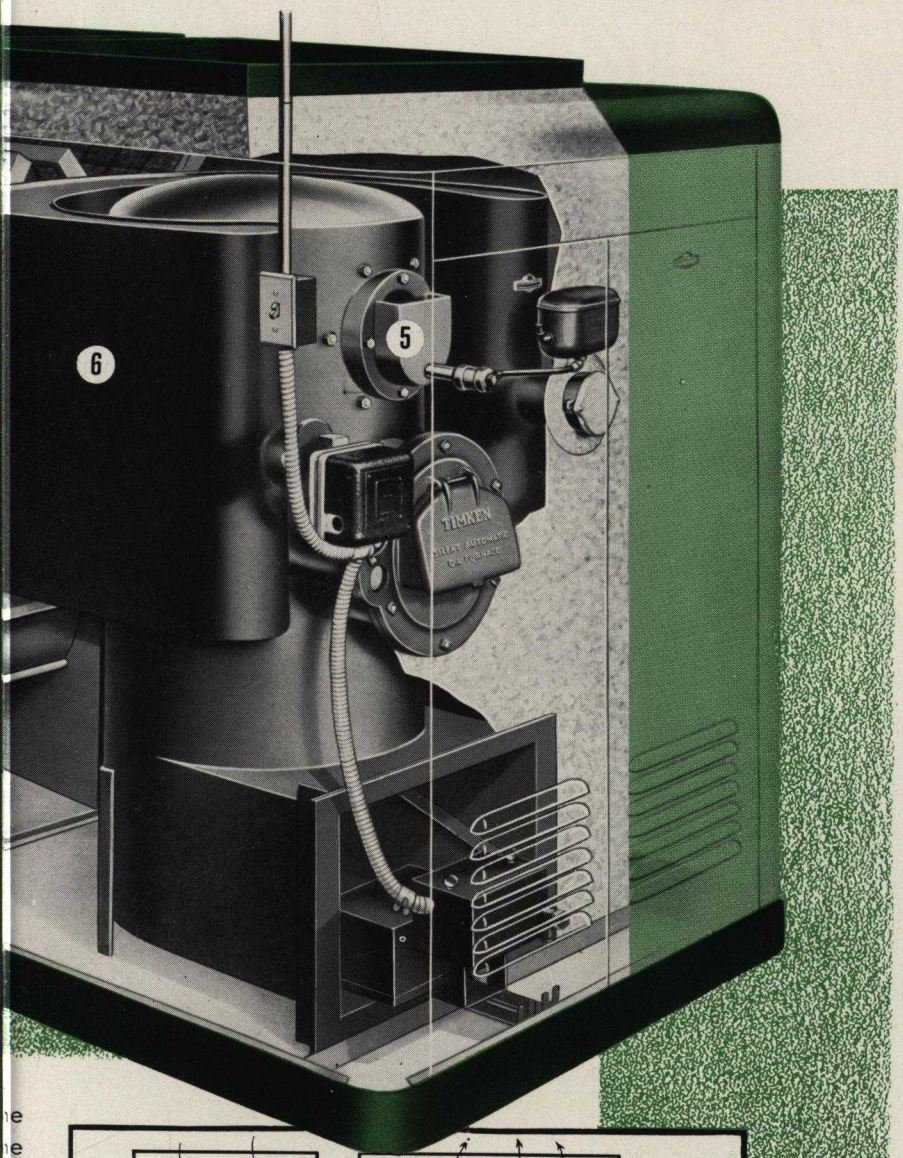
● Illustration above shows t amazingly compact design of t Timken Air Conditioning Unit fi with the famous Wall Flame burner. In each Timken unit furnace and burner are perfec matched to guarantee maxim heating efficiency. All parts enclosed in the well-ventilate handsome cabinet finished in tw tone green. (From top to bottom, the rear, note filters, cooling co dehumidifying plates and blowe Diagram shows how air is con tioned as it passes through the un

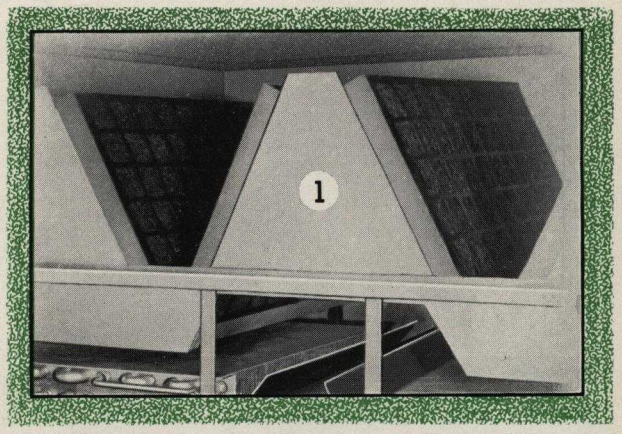
● Cutaway of rear view of Timken unit showing compact cooling coils and dehumidifying plates in position between blower and filters. Powerful, oversized blower runs at low speed to guarantee super-quiet operation.



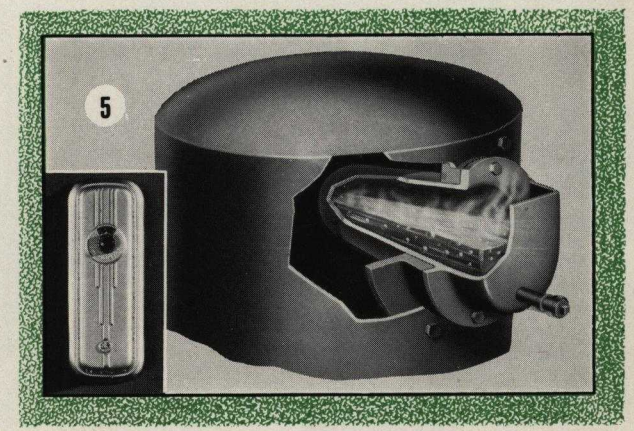
● Quiet, compact compressor especially designed for perfectly balanced operation with Timken Air Conditioning Units. Embodies all the latest refinements . . . features endorsed by countless satisfied users. Independently mounted for superior performance.

H STANDARD OF AUTOMATIC
GERATED SUMMER COOLING!

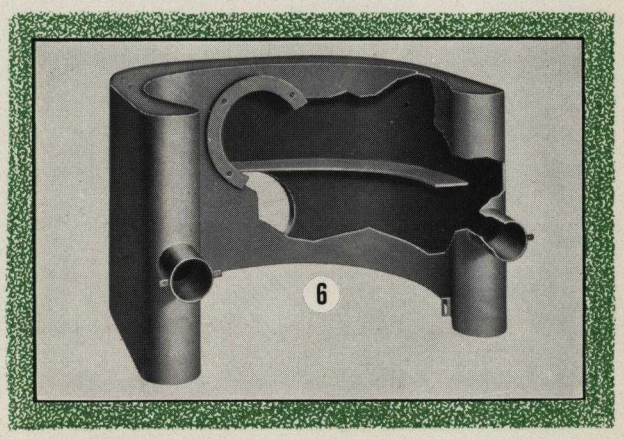




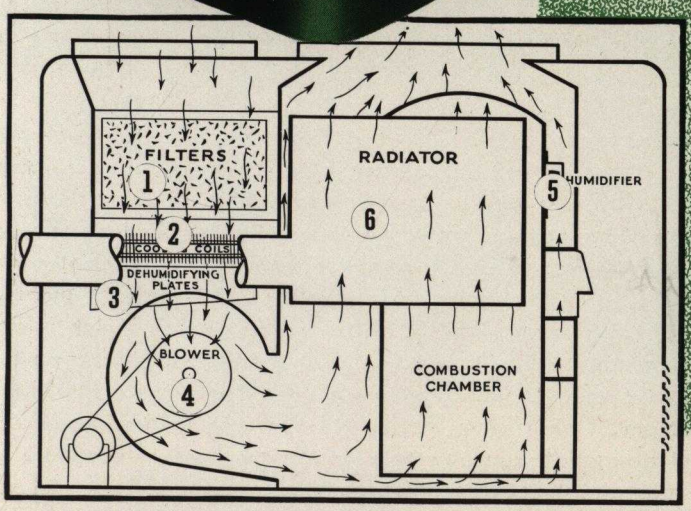
FILTERS PROVIDE THOROUGH CLEANSING OF AIR—Highly efficient filters, remove dust, dirt, pollen and bacteria from the air which is directed into your home. Clean air plays a vital part in protecting your health. Filters are cartridge type . . . easy to remove; inexpensive to replace.



MOISTENED AIR PROTECTS YOUR HEALTH—Just the right amount of moisture is added to the warm air to keep it comfortable and healthful. No dry, parched air reaches your living quarters. Humidistat (insert above) is optional equipment for regulating moisture content of air.



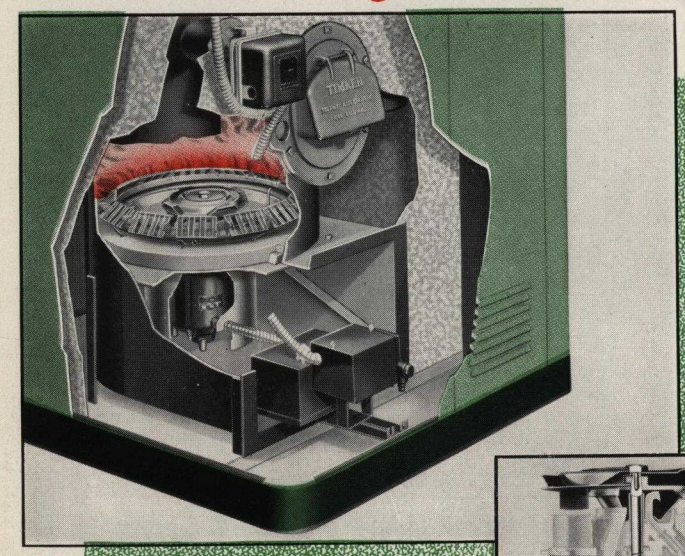
RADIATOR STEPS UP HEATING—The unique construction of the steel radiator forces burned gases to give up maximum warmth. You enjoy lower fuel costs—more heat from less oil because of large heating surfaces. This dollar-saving advantage is one of many Timken thrift features.



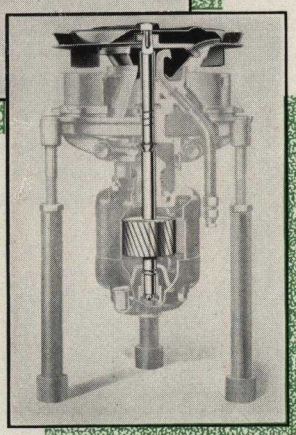
● **The extreme simplicity of a Timken is responsible for its matchless performance. Arrows show how during the heating season the blower draws air into the unit through the filters where it is thoroughly cleansed. Then it travels through the heating unit where it is warmed and humidified before it is forced into the living quarters. In the summer, the clean, filtered air is passed over the cooling coils and the dehumidifying plates before it enters your rooms.**

YOUR CHOICE OF TWO TYPES OF PROVED BURNERS TO SUIT YOUR NEEDS AND YOUR BUDGET!

TIMKEN ROTARY BURNER WITH THRIFTY *Wall of Flame!*

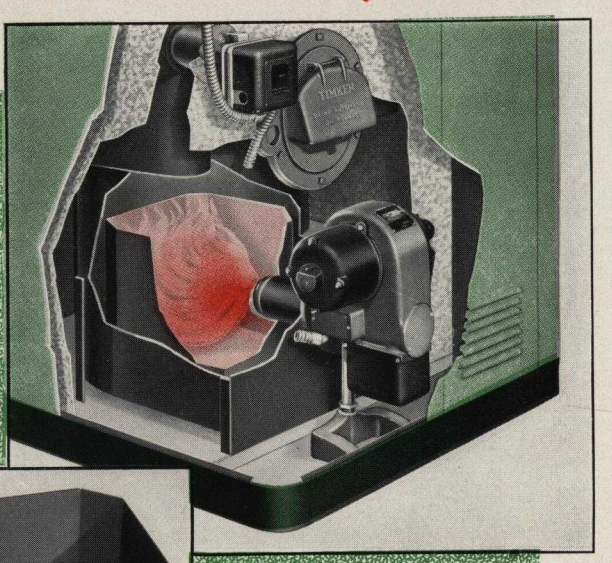


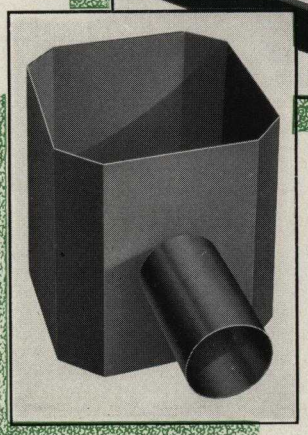
● Quiet beyond belief! The gentle wall-wiping flame blankets the firebox. Chromium steel flame-rim—an exclusive Timken feature—warms up seven times faster than ordinary refractories. Burns low-cost oil cleanly. Only ONE moving part, running in a bath of oil to minimize wear, makes for trouble-free operation. Electric ignition assures positive starting for only 5c a year! Prefabricated hearth simplifies perfect installation.



(RIGHT)—Only ONE moving part brings you carefree, dependable service with no complicated mechanism to get out of order.

PRESSURE-TYPE BURNER WITH EXCLUSIVE *Flame Control!*

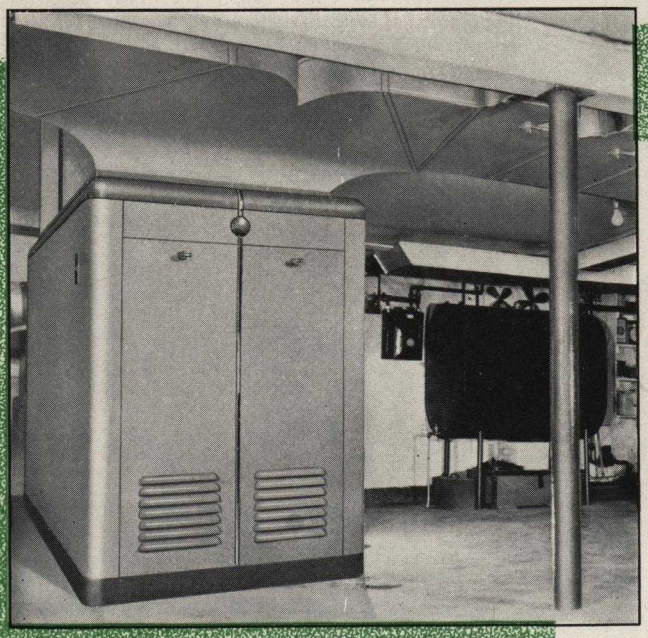




● Only Timken engineers could produce this extraordinary burner. Perfectly balanced design . . . precision built, this unit conforms in every detail to Timken's rigid standards of high-quality workmanship with finest materials. ***Flame Control*** provides more heat per gallon of oil through scientific mixing of air and oil in exact proportions. Assures ***true*** heating economy.

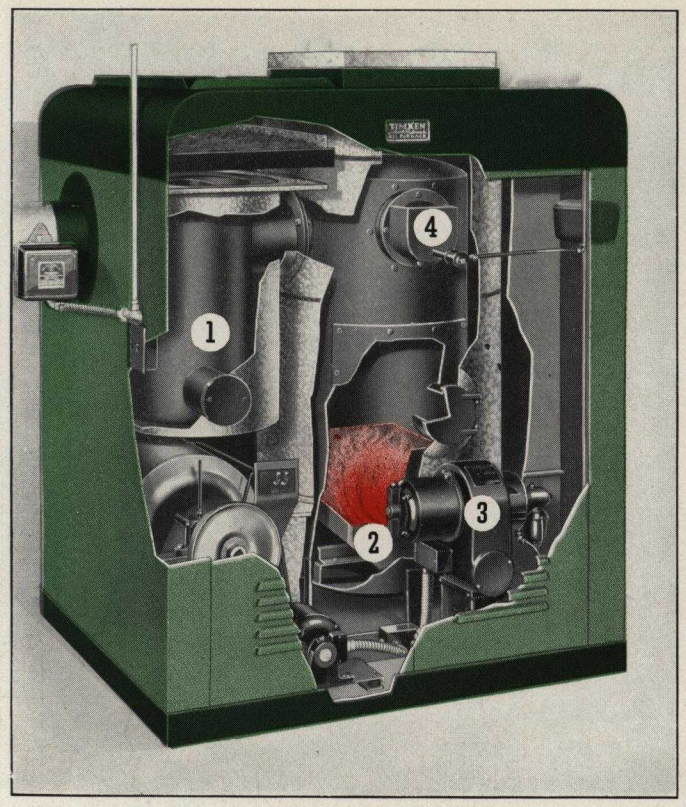
(LEFT)—Chromium steel firebox converts entire combustion chamber into effective heating surface—an exclusive Timken feature.

A VARIETY OF MODELS AT A WIDE RANGE OF PRICES!



● One of the special benefits that Timken's complete line of year round air conditioning units affords is the variety of types of equipment you can buy with the money you have available. The price you pay for the unit that meets your needs best, depends on whether you prefer the Rotary or Pressure-Type Burner . . . what size blower is needed for your particular installation . . . whether you wish refrigerated summer cooling at once, or whether you prefer to wait awhile before making this additional investment. In short, you can get exactly what you need, when you need it, at a price well within your means. Your Timken Dealer will offer you unbiased advice—without obligation—on how to plan the purchase of complete air conditioning at your greatest convenience.

The basement of a Timken air conditioned home. Heating and cooling distributed through trunk-line system of rectangular ducts. Timken installations are all planned by engineering experts.



SPECIAL LOW-COST UNIT DESIGNED FOR SMALL HOMES

● So that even the most modest homes can thoroughly enjoy the pleasure and comfort of dependable oil heating and positive winter air conditioning, Timken offers the Model GC 20-A Oilfurnace. An extremely compact unit, it brings you such proved dollar-saving features as the pressure-type burner with patented ***Flame Control . . .*** the thrifty chromium steel fire-box . . . a specially constructed radiator for maximum heating efficiency. Unique design provides ventilation between cabinet and inner casing . . . prevents heat losses into the basement. Timken ***quality*** throughout, this unit is the perfect solution to the heating problem of homes that do not require units of large heating capacities.

TIMKEN'S MATCHLESS EXPERIENCE ASSURES GREATEST DEPENDABILITY

● The name TIMKEN guarantees you complete satisfaction . . . dependability that is backed by a priceless reputation for precision manufacturing in many fields. For more than sixty years, Timken has rigidly maintained high standards of workmanship with ***quality*** materials. Giant industries everywhere place their trust and confidence in Timken . . . and Timken keeps faith with them. The Timken Silent Automatic Division carries on the Timken tradition. Timken's unchallenged leadership—backed by more than 140,000 enthusiastic users—is proof that the public, your neighbors, appreciate ***value.*** It is being penny-wise and pound foolish to accept less than Timken for the lifetime investment you make in modern air conditioning.

Every tool of science is used to guarantee you flawless, perfectly executed parts. Here a checker is shown examining Timken parts with a microscope to make sure they are up to standard.

The proving grounds of Timken equipment. Part of the vast laboratory devoted entirely to tests and measurements—gruelling tests and exhaustive research of efficiency and endurance. Timken reliability and economical operation is perfected here before it is offered to the public.

To make certain that your Timken burner operates as quietly as it is humanly possible to make it, experienced inspectors test each unit to guard against excessive noise. Special sound-testing device registers the faintest noises or vibrations.

TIMKEN AIR CONDITIONING UNITS

SPECIFICATIONS AND PERFORMANCE DATA

Models fired with wall-flame oil burner / Models fired with pressure oil burner	FAR-150 FAP-150		FAR-180 FAP-180		FAR-210 FAP-210		FAR-240 FAP-240		GC-20-A	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HEATING										
B.T.U. Capacity at Plenum	120,000	150,000	144,000	180,000	168,000	210,000	192,000	240,000	94,000	94,000
Delivery, Cu. Ft. Air per min.	1,000	1,600	1,600	2,600	1,800	3,400	2,000	3,700	800	1,200
Blower, R.P.M.	415	495	434	500	420	496	433	471	415	570
Blower Motor H.P.	1/4	1/4	1/3	1/3	1/2	1/2	3/4	3/4	1/4	1/4
Oil Rate, FAR Models, lbs. per hr.	7.52	9.4	9.04	11.3	10.48	13.1	12.0	15.0		
Oil Rate, FAP Models, gals. per hr.	1.12	1.4	1.36	1.7	1.6	2.0	1.84	2.3	1	1
COOLING										
B.T.U. Capacity**	21,000	29,000	29.000	52,000	44,000	67,000	58,000	88,000		
Condenser Motor H.P.	2	3	3	5	5	7.5	5	7.5		
Condenser Capacity in Tons*	2	2.8	2.8	4.8	4.8	7.4	4.8	7.4		
Cooling Coils, Rows Deep	3	3	3	3	3	3	4	4		
Blower Motor H.P.#	1/4	1/4	#1/2	#1/2	#3/4	#3/4	3/4	3/4		
Blower, R.P.M.	506	562	497	534	467	565	490	506		
GENERAL										
Number of Filters	4		4		6		6		2	
Size of Filters	16 x 25		16 x 25		20 x 20		20 x 20		20 x 20	
Chimney Cross Section, In.	9 x 9		9 x 9		9 x 12		9 x 12		8 x 8	
Chimney Height, Ft.	30		30		35		35		30	
Length, In.	87 1/8		87 1/8		100 7/8		100 7/8		50 3/16	
Height, In.	57 1/2		57 1/2		61		61		59	
Width, In.	43 5/8		43 5/8		48 1/8		48 1/8		41 5/8	
Ignition—All FAR Models	Twin Electric		Inter-mittent							
Ignition—All FAP Models	Electric		Constant							
Burner Motor H.P.—										
All FAR Models	1/20									
All FAP Models	1/6									
GC-20-A	1/6									

*1 ton of refrigeration equals 12,000 BTU's.

#Larger Blower Motor is provided when cooling is to be installed later.

**All cooling loads were based upon 90% recirculated air at 80° F. dry bulb, 67° F. wet bulb, 10% outside air at 95° F. dry bulb, 76° F. wet bulb and 40° F. refrigerant temperature at coils. Capacities will differ somewhat with each air conditioning job.

ENGINEERING *and* PLAN SERVICE

As an additional service to home builders, architects and contractors, Timken Silent Automatic Dealers and Factory Branches provide engineering service for preparing recommendations and specifications for selecting and locating equipment, laying out duct-work and over-all planning of complete heating and air conditioning systems. This service is available without extra charge.

TIMKEN SILENT AUTOMATIC DIVISION

THE TIMKEN-DETROIT AXLE COMPANY
DETROIT, MICH.

FACTORY RETAIL BRANCH SHOWROOMS

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TIMKEN SILENT AUTOMATIC DIVISION

The Timken-Detroit Axle Company
DETROIT, MICHIGAN

TIMKEN SILENT AUTOMATIC OF CANADA, LIMITED
WALKERVILLE, ONTARIO

OIL BURNERS . . . . . OILBOILERS . . . . . AIR CONDITIONING OILFURNACES . . . . . OIL-BURNING WATER HEATERS

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